

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	423	(calculat\$3 or comput\$3 or measur\$3) with (weight\$3 or degree or scor\$3) with similar\$3 with images	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:42
L2	95	(multiply\$3 with image with feature )	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:27
L3	5	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:17
L4	1	3 and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:21
L5	2	2 and (image with retriev\$3).ab. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:25
L6	1	2 and (image with retriev\$3).ti. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:25
L7	1	2 and (image with retriev\$3).clm. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 17:07
L8	8	2 and (image with retriev\$3)". and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:26

## EAST Search History

L9	2	2 and (image with retriev\$3) and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:43
L10	44	1 and (image with retriev\$3) and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:26
L11	21	1 and (image with retriev\$3).ab. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:26
L12	0	(multiply\$3 with image ) and 11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:29
L13	2	("6616833").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:30
L14	2	("6616833").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:31
L15	4	10 and (707/1).ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:32
L16	80	((calculat\$3 or comput\$3 or measur\$3) with (weight\$3 or degree or scor\$3) with similar\$3 with images).ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:42

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L17	16	16 and (image with retriev\$3) and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:44
L18	1	16 and (image with retriev\$3) and @ad<"20000329" and multipl\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 16:44
L19	0	2 and (707/3).CCLS. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 17:07
L20	1	2 and (707/104.1).CCLS. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 17:07
L21	0	2 and (382/217).CCLS. and @ad<"20000329"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/01/17 17:07

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# 1 [Design and evaluation of algorithms for image retrieval by spatial similarity](#)



Venkat N. Gudivada, Vijay V. Raghavan

 April 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 2

Publisher: ACM Press

Full text available: pdf(1.89 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Similarity-based retrieval of images is an important task in many image database applications. A major class of users' requests requires retrieving those images in the database that are spatially similar to the query image. We propose an algorithm for computing the spatial similarity between two symbolic images. A symbolic image is a logical representation of the original image where the image objects are uniquely labeled with symbolic names. Spatial relationships in a symbolic image are re ...

**Keywords:** image databases, image retrieval, image retrieval systems, rotational invariance, spatial similarity

# 2 [Brave new topics 3: advanced methods for medical image retrieval & applications: MultiPRE: a novel framework with multiple parallel retrieval engines for content-based image retrieval](#)


 Wei Xiong, Bo Qiu, Qi Tian, Changsheng Xu, S. H. Ong, Kelvin Foong, Jean-Pierre Chevallet  
November 2005 **Proceedings of the 13th annual ACM international conference on**
**Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(1.03 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We propose a novel framework for content-based image retrieval with multiple parallel retrieval engines (MultiPRE) to achieve higher retrieval performance. Visual features, including both low-level features, such as color, texture and region features, and middle-level structure features, such as blob representation of objects are used to capture geometrical and statistical characteristics of images. Both clustering analysis and discrimination analysis are used as similarity measures in multiple ...

**Keywords:** PCA, SVM, content-based image retrieval, framework, fusion, multilayer, parallel, retrieval engine, similarity



### 3 Image retrieval and perceptual similarity



Dirk Neumann, Karl R. Gegenfurtner

January 2006 **ACM Transactions on Applied Perception (TAP)**, Volume 3 Issue 1

**Publisher:** ACM Press

Full text available: pdf(455.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Simple, low-level visual features are extensively used for content-based image retrieval. Our goal was to evaluate an image-indexing system based on some of the known properties of the early stages of human vision. We quantitatively measured the relationship between the similarity order induced by the indexes and perceived similarity. In contrast to previous evaluation approaches, we objectively measured similarity both for the few best-matching images and also for relatively distinct images. Th ...

**Keywords:** Color indexing, Fourier spectrum, content-based image retrieval, image search

### 4 Similarity querying II: QCluster: relevance feedback using adaptive clustering for content-based image retrieval



Deok-Hwan Kim, Chin-Wan Chung

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

**Publisher:** ACM Press

Full text available: pdf(2.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The learning-enhanced relevance feedback has been one of the most active research areas in content-based image retrieval in recent years. However, few methods using the relevance feedback are currently available to process relatively complex queries on large image databases. In the case of complex image queries, the feature space and the distance function of the user's perception are usually different from those of the system. This difference leads to the representation of a query with multiple ...

**Keywords:** classification, cluster-merging, content-based image retrieval, image database, relevance feedback

### 5 A robust framework for content-based retrieval by spatial similarity in image databases



Essam A. El-Kwae, Mansur R. Kabuka

April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2

**Publisher:** ACM Press

Full text available: pdf(274.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A framework for retrieving images by spatial similarity (FRISS) in image databases is presented. In this framework, a robust retrieval by spatial similarity (RSS) algorithm is defined as one that incorporates both directional and topological spatial constraints, retrieves similar images, and recognized images even after they undergo translation, scaling, rotation (both perfect and multiple), or any arbitrary combination of transformations. The FRISS framework is discussed and used as a ba ...

**Keywords:** content-based retrieval, image databases, multimedia databases, query formulation, retrieval models, similarity retrieval, spatial similarity

### 6 Image Retrieval from the World Wide Web: Issues, Techniques, and Systems



M. L. Kherfi, D. Ziou, A. Bernardi

March 2004 **ACM Computing Surveys (CSUR)**, Volume 36 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(294.13 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With the explosive growth of the World Wide Web, the public is gaining access to massive amounts of information. However, locating needed and relevant information remains a difficult task, whether the information is textual or visual. Text search engines have existed for some years now and have achieved a certain degree of success. However, despite the large number of images available on the Web, image search engines are still rare. In this article, we show that in order to allow people to profi ...

**Keywords:** Image-retrieval, World Wide Web, crawling, feature extraction and selection, indexing, relevance feedback, search, similarity

7 Special session 2: multimedia information retrieval: challenges and real-world applications: Localized content based image retrieval



Rouhollah Rahmani, Sally A. Goldman, Hui Zhang, John Krettek, Jason E. Fritts

November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**

**Publisher:** ACM Press

Full text available: [pdf\(5.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Classic *Content-Based Image Retrieval* (CBIR) takes a single non-annotated query image, and retrieves similar images from an image repository. Such a search must rely upon a holistic (or global) view of the image. Yet often the desired content of an image is not holistic, but is localized. Specifically, we define *Localized Content-Based Image Retrieval* as a CBIR task where the user is only interested in a portion of the image, and the rest of the image is irrelevant. Many classic CB ...

**Keywords:** content based image retrieval, image retrieval, multiple instance learning, relevance feedback

8 Technical session 15: WWW image retrieval: Multi-model similarity propagation and its application for web image retrieval



Xin-Jing Wang, Wei-Ying Ma, Gui-Rong Xue, Xing Li

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**

**Publisher:** ACM Press

Full text available: [pdf\(726.07 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, we propose an iterative similarity propagation approach to explore the inter-relationships between Web images and their textual annotations for image retrieval. By considering Web images as one type of objects, their surrounding texts as another type, and constructing the links structure between them via webpage analysis, we can iteratively reinforce the similarities between images. The basic idea is that if two objects of the same type are both related to one object of another ...

**Keywords:** iterative similarity propagation, mixture model, multimedia retrieval, mutual reinforcement

## 9 A model of multimedia information retrieval



Carlo Meghini, Fabrizio Sebastiani, Umberto Straccia  
September 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 5

**Publisher:** ACM Press

Full text available: pdf(5.69 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research on multimedia information retrieval (MIR) has recently witnessed a booming interest. A prominent feature of this research trend is its simultaneous but independent materialization within several fields of computer science. The resulting richness of paradigms, methods and systems may, on the long run, result in a fragmentation of efforts and slow down progress. The primary goal of this study is to promote an integration of methods and techniques for MIR by contributing a conceptual model ...

**Keywords:** Description logics, fuzzy logics, multimedia information retrieval

## 10 Supporting similarity queries in MARS



Michael Ortega, Yong Rui, Kaushik Chakrabarti, Sharad Mehrotra, Thomas S. Huang  
November 1997 **Proceedings of the fifth ACM international conference on Multimedia MULTIMEDIA '97**

**Publisher:** ACM Press

Full text available: pdf(2.48 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

## 11 Full papers (written in English): An image retrieval system adaptable to user's interests by the use of relevance feedback via genetic algorithm



Sérgio F. da Silva, Celia A. Z. Barcelos, Marcos A. Batista  
November 2006 **Proceedings of the 12th Brazilian symposium on Multimedia and the web WebMedia '06**

**Publisher:** ACM Press

Full text available: pdf(2.04 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)

The emergence of multimedia technology and the rapid expansion of image sets on the internet have attracted a lot of research tools for effective retrieval of visual data. When working in the image retrieval context the main goal is to retrieve images which might be useful or relevant to the user based on features automatically extracted from the images. The proposal of this work is to integrate the information provided by the user into the decision procedure by the use of the relevance feedback ...

**Keywords:** genetic algorithm, image retrieval, relevance feedback

## 12 Special session 2: multimedia information retrieval: challenges and real-world applications: Content-based image retrieval: approaches and trends of the new age



Ritendra Datta, Jia Li, James Z. Wang  
November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**

**Publisher:** ACM Press

Full text available: pdf(467.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The last decade has witnessed great interest in research on content-based image retrieval. This has paved the way for a large number of new techniques and systems, and a growing interest in associated fields to support such systems. Likewise, digital imagery has expanded its horizon in many directions, resulting in an explosion in the volume of

image data required to be organized. In this paper, we discuss some of the key contributions in the current decade related to image retrieval and automat ...

**Keywords:** annotation, content-based image retrieval

13 Poster session 2: image/WWW-based system and applications: Multiple random walk and its application in content-based image retrieval



Jingrui He, Hanghang Tong, Mingjing Li, Wei-Ying Ma, Changshui Zhang

November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**

**Publisher:** ACM Press

Full text available: pdf(297.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a transductive learning method for content-based image retrieval: Multiple Random Walk (MRW). Its basic idea is to construct two generative models by means of Markov random walks, one for images relevant to the query concept and the other for the irrelevant ones. The goal is to obtain the likelihood functions of both classes. Firstly, MRW generates two random walks with virtual absorbing boundaries, and uses the absorbing probabilities as the initial estimation of the I ...

**Keywords:** Markov random walk, class prior, generative model, image retrieval, likelihood function, relevance feedback

14 Using semantic contents and WordNet in image retrieval



Y. Alp Aslandogan, Chuck Thier, Clement T. Yu, Jon Zou, Naphtali Rishe

July 1997 **ACM SIGIR Forum , Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval SIGIR '97**, Volume 31 Issue SI

**Publisher:** ACM Press

Full text available: pdf(1.62 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 Fast image retrieval using color-spatial information

Beng Chin Ooi, Kian-Lee Tan, Tat Seng Chua, Wynne Hsu

May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 2

**Publisher:** Springer-Verlag New York, Inc.

Full text available: pdf(496.55 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper, we present an image retrieval system that employs both the color and spatial information of images to facilitate the retrieval process. The basic unit used in our technique is a *single-colored cluster*, which bounds a homogeneous region of that color in an image. Two clusters from two images are similar if they are of the same color and overlap in the image space. The number of clusters that can be extracted from an image can be very large, and it affects the accuracy of ret ...

**Keywords:** Color-spatial information, Content-based retrieval, Sequenced multi-attribute tree, Single-colored cluster

16 Advances in spatial and image-based information systems (ASIS): Dynamic interactive spatial similarity retrieval in iconic image databases using enhanced digraph



Xiao Ming Zhou, Chuan Heng Ang, Tok Wang Ling

April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

**Publisher:** ACM Press

Full text available:  pdf(142.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Similarity-based retrieval of images is an important task in many image database applications. Interactive similarity retrieval is one way to resolve the fuzzy area involving psychological and physiological factors of individuals during the retrieval process. A good interactive similarity system is not only dependent on a good measure system, but also closely related to the structure of the image database and the retrieval process based on the respective image database structure. In this paper, ...

**Keywords:** enhanced digraph, iconic image databases, interactive, similarity retrieval, spatial relationship

17 Best student papers: Semantic manifold learning for image retrieval



Yen-Yu Lin, Tyng-Luh Liu, Hwann-Tzong Chen

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

**Publisher:** ACM Press

Full text available:  pdf(2.12 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Learning the user's semantics for CBIR involves two different sources of information: the similarity relations entailed by the content-based features, and the relevance relations specified in the feedback. Given that, we propose an *augmented relation embedding* (ARE) to map the image space into a *semantic manifold* that faithfully grasps the user's preferences. Besides ARE, we also look into the issues of selecting a good feature set for improving the retrieval performance. With thes ...


**Keywords:** dimensionality reduction, feature selection, image retrieval, manifold learning, relevance feedback

18 Theory of keyblock-based image retrieval



April 2002 **ACM Transactions on Information Systems (TOIS)**, Volume 20 Issue 2

**Publisher:** ACM Press

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The success of text-based retrieval motivates us to investigate analogous techniques which can support the querying and browsing of image data. However, images differ significantly from text both syntactically and semantically in their mode of representing and expressing information. Thus, the generalization of information retrieval from the text domain to the image domain is non-trivial. This paper presents a framework for information retrieval in the image domain which supports content-based q ...

**Keywords:** clustering, codebook, content-based image retrieval, keyblock

19 SEMCOG: an integration of SEMantics and COGnition-based approaches for image retrieval



Wen-Syan Li, K. Selçuk Candan, Kyoji Hirata

April 1997 **Proceedings of the 1997 ACM symposium on Applied computing SAC '97**

**Publisher:** ACM Press

Full text available:  pdf(998.98 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** cognition, content-based image retrieval, contents, image databases, object-based image retrieval, query processing, semantics

20 [A survey on wavelet applications in data mining](#)



Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogiwara

December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

**Publisher:** ACM Press

Full text available: pdf(330.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

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